

HVL355CM

Variable Capacitance Diode for VCO

REJ03G0012-0300 Rev.3.00 Mar 10, 2006

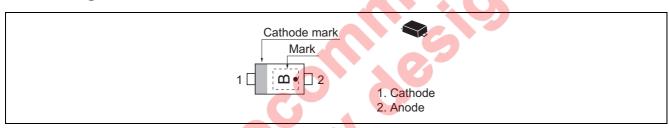
Features

- High capacitance ratio. (n = 2.35 min)
- Low series resistance. (rs = $0.60 \Omega \text{ max}$)
- Thin Extremely small Flat Lead Package (TEFP) is suitable for surface mount design.

Ordering Information

Type No.	Type No. Laser Mark		Package Code	
HVL355CM	В	TEFP	PUSF0002ZA-A	

Pin Arrangement



Absolute Maximum Ratings

 $(Ta = 25^{\circ}C)$

Item	Symbol	Value	Unit
Reverse voltage	V _R	15	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

Electrical Characteristics

 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	V _R = 15 V
	I _{R2}	_	_	100		V _R = 15 V, Ta = 60°C
Capacitance	C ₁	6.62	_	7.02	pF	$V_R = 1 \text{ V, } f = 1 \text{ MHz}$
	C ₄	2.60	_	2.95		$V_R = 4 \text{ V}, f = 1 \text{ MHz}$
Capacitance ratio	n	2.35	_	2.55		C ₁ / C ₄
Series resistance	r _S			0.60	Ω	V _R = 1 V, f = 470 MHz

Note: For TEFP package, the material of lead is exposed for cutting plane. There for, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.



Main Characteristic

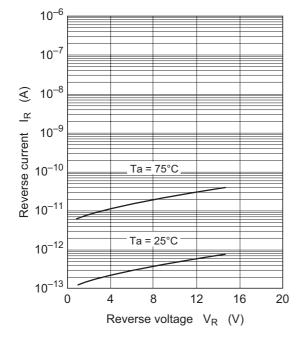


Fig.1 Reverse current vs. Reverse voltage

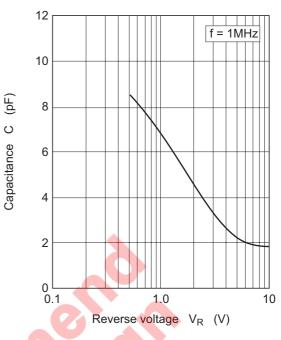
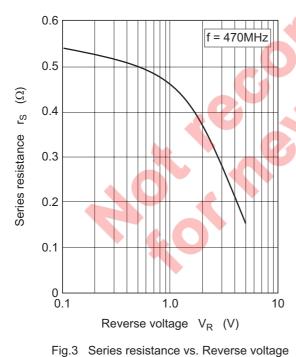
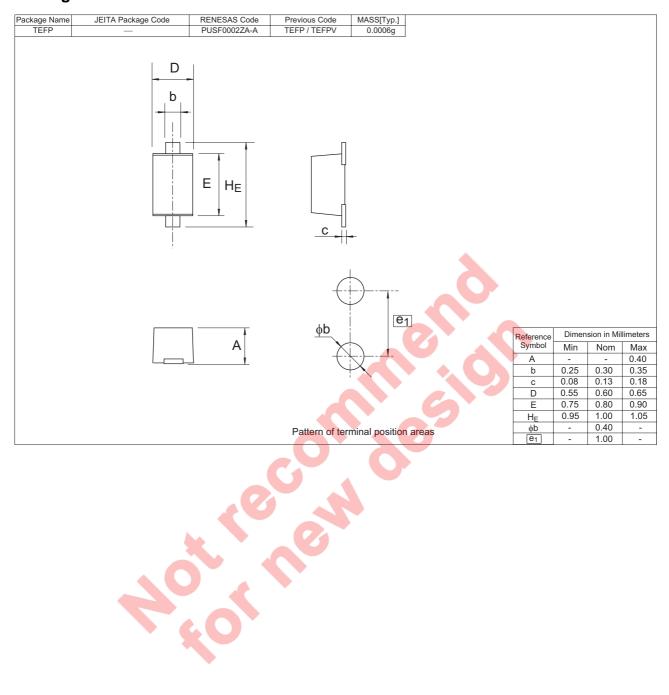
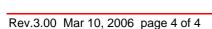


Fig.2 Capacitance vs. Reverse voltage



Package Dimensions





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